

WHAT IS CLAIMED IS:

- 1 1. A multi-robotic system architecture having a plurality of system layers
- 2 interconnected to one another, comprising:
 - 3 a first layer including a hybrid control system for a plurality of mobile robotic
 - 4 agents (MRAs);
 - 5 a second layer including a distributed mobile robotic system for the plurality
 - 6 of MRAs;
 - 7 a third layer including a grid computing architecture in a plurality of dynamic
 - 8 clusters;
 - 9 a fourth layer including a dynamic distributed object relational database
 - 10 management system;
 - 11 a fifth layer including an omni-nodal evolutionary artificial neural network;
 - 12 a sixth layer including a multi-agent system and a plurality of intelligent
 - 13 mobile software agents;
 - 14 a seventh layer including a plurality of cellular automata simulations; and
 - 15 an eighth layer including a plurality of functional applications.